

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: ALFT et al. Prior Examiner: Pezzuto, Robert E.
Prior App Serial No. 10/304,185 Prior Group Art Unit: 3671
Divisional Filed: April 2, 2004 Docket No.: VERA.024DIV3
Title: EARTH PENETRATING APPARATUS AND METHOD EMPLOYING
RADAR IMAGING AND RATE SENSING

CERTIFICATE UNDER 37 CFR 1.10:
"Express Mail" mailing label number: EV 381020258 US
Date of Deposit: April 2, 2004

I hereby certify that this paper or fee is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Commissioner for Patents, MAIL STOP PATENT APPLICATION, P.O. Box 1450, Alexandria, VA 22313-1450.

By: 
Kelly S. Waltigney

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b))

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form(s) 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted either within three months of the filing date or before the first Office Action of the above-identified application. Accordingly, no fee is due for consideration of the items listed on the enclosed Form(s) 1449.

In accordance with 37 C.F.R. § 1.98(d), a copy of each document or other information listed on the enclosed Form(s) 1449 was previously provided, or cited in a PTO-Form 892 communication in U.S. patent application serial no. 10/304,185 filed on November 25, 2002. This application is a divisional of the aforementioned prior application and relies thereon for an earlier effective filing date under 35 U.S.C. 120.

Docket No. VERA.024DIV3
Appl. Filed: April 2, 2004
Serial No.: Unassigned
Information Disclosure Statement

Accordingly, copies of the references listed on the Form(s) 1449 are not submitted herewith.

Please note that any notations or markings on the attached documents do not reflect particular relevance, or lack thereof, to the present application, nor were they necessarily made by anyone affiliated with the prosecution of the present application.

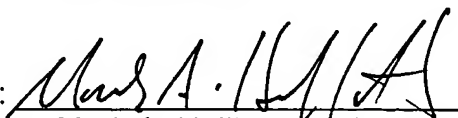
No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form(s) 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Respectfully submitted,

Crawford Maunu PLLC
1270 Northland Drive
Suite 390
St. Paul, MN 55120
651/686-6633

Date: April 2, 2004

By: 
Mark A. Hollingsworth
Reg. No. 38,491

INFORMATION DISCLOSURE STATEMENT PTO Form 1449	Docket Number VERA.024DIV3	Serial Number Unassigned
	Applicant(s) ALFT et al.	Prior Group Art Unit 3671
	Filing Date April 2, 2004	As was filed in Parent Application 10/304,185 11/25/2002

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,845,569	11/05/74	Otte <i>et al.</i>			
	4,003,017	01/11/77	Bailey			
	4,021,774	05/03/77	Asmundsson <i>et al.</i>			
	4,071,959	02/07/78	Russell <i>et al.</i>			
	4,297,790	11/03/81	Van Steenwyk <i>et al.</i>			
	4,302,886	12/01/81	Starr			
	4,318,300	03/09/82	Maughmer			
	4,454,756	06/19/84	Sharp <i>et al.</i>			
	4,503,718	03/12/85	Quermann			
	4,598,585	07/08/86	Boxenhorn			
	4,675,820	06/23/87	Smith <i>et al.</i>			
	4,711,125	12/08/87	Morrison			
	4,739,841	04/26/88	Das			
	4,823,626	04/25/89	Hartmann <i>et al.</i>			
	4,907,658	03/13/90	Stangl <i>et al.</i>			
	4,909,336	03/20/90	Brown <i>et al.</i>			
	4,926,696	05/22/90	Haritonidis <i>et al.</i>			
	4,945,765	08/07/90	Roszhart			
	4,987,684	01/29/91	Andreas <i>et al.</i>			
	4,996,627	02/26/91	Zias <i>et al.</i>			
	5,012,424	04/30/91	Dodson			
	5,090,254	02/25/92	Guckel <i>et al.</i>			
	5,112,126	05/12/92	Graebner			
	5,182,516	01/26/93	Ward <i>et al.</i>			
	5,188,983	02/23/93	Guckel <i>et al.</i>			
	5,189,777	02/23/93	Guckel <i>et al.</i>			
	5,194,872	03/16/93	Musoff <i>et al.</i>			
	5,220,963	06/22/93	Patton			
	5,233,871	08/10/93	Schwarz <i>et al.</i>			
	5,332,469	07/26/94	Mastrangelo			

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.	

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,337,002	08/09/94	Mercer			
	5,338,929	08/16/94	Douma <i>et al.</i>			
	5,392,650	02/28/93	O'Brien <i>et al.</i>			
	5,394,950	03/07/95	Gardes			
	5,410,487	04/25/95	Okayama <i>et al.</i>			
	5,422,817	06/06/95	Tazartes <i>et al.</i>			
	5,438,231	01/08/95	Khoshnevisan			
	5,456,110	10/10/95	Hulsing, II			
	5,467,832	11/21/95	Orban <i>et al.</i>			
	5,469,155	11/21/95	Archambeault <i>et al.</i>			
	5,515,724	05/14/96	Greiff <i>et al.</i>			
	5,544,055	08/06/96	Cooper			
	5,556,253	09/17/96	Rozendaal <i>et al.</i>			
	5,560,437	10/01/96	Dickel <i>et al.</i>			
	5,566,448	10/1996	Tanigushi <i>et al.</i>			
	5,585,726	12/17/96	Chau			
	5,602,541	02/11/97	Comeau <i>et al.</i>			
	5,603,386	02/18/97	Webster			
	5,608,162	03/04/97	Ho			
	5,627,314	05/06/97	Hulsing, II			
	5,633,589	05/27/97	Mercer			
	5,646,611	07/08/97	Dailey <i>et al.</i>			
	5,652,617	07/29/97	Barbour			
	5,656,777	08/12/97	Petri <i>et al.</i>			
	5,657,826	08/19/97	Kuckes			
	5,659,195	08/19/97	Kaiser <i>et al.</i>			
	5,659,985	08/26/97	Stump			
	5,668,319	09/16/97	Garabedian			
	5,678,643	10/1997	Robbins <i>et al.</i>			

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,698,981	12/16/97	Mercer			
	5,704,142	01/06/98	Stump			
	5,719,772	02/17/98	Benes			
	5,720,354	02/24/98	Stump <i>et al.</i>			
	5,780,742	07/14/98	Burns <i>et al.</i>			
	5,796,001	08/18/98	Greiff <i>et al.</i>			
	5,805,110	09/08/98	McEwan			
	5,812,068	09/1998	Wisler <i>et al.</i>			
	5,817,942	10/06/98	Greiff			
	5,818,227	10/06/98	Payne <i>et al.</i>			
	5,828,980	10/27/98	Tazartes <i>et al.</i>			
	5,831,164	11/03/98	Reddi <i>et al.</i>			
	5,842,149	11/1998	Harrell <i>et al.</i>			
	5,867,117	02/02/99	Gogineni <i>et al.</i>			
	5,869,760	02/09/99	Geen			
	5,886,249	03/23/99	Bonne <i>et al.</i>			
	5,890,093	03/30/99	Mark <i>et al.</i>			
	5,904,210	05/18/99	Stump <i>et al.</i>			
	5,915,275	06/22/99	Cardarelli <i>et al.</i>			
	6,021,377	02/2000	Dubinsky <i>et al.</i>			
	6,088,294	07/2000	Leggett, III <i>et al.</i>			
	6,092,610	07/2000	Kosmala <i>et al.</i>			

FOREIGN PATENT DOCUMENTS						
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	WO 00 17487 A	03/30/00	WO			
	WO 00/28188	05/18/00	WO			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	1998	Brochure "Silicon MicroRing GyroO," MicroSensors, Inc., 3001 Redhill Avenue, Building 3, Costa Mesa, CA 92656-4529 (September 1998).				

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	5,937,954	08/17/1999	Puttmann <i>et al.</i>			
	6,012,536	01/11/2000	Puttmann <i>et al.</i>			
	6,199,643	03/13/2001	Hesse <i>et al.</i>			
	6,389,360	05/14/2002	Alft <i>et al.</i>			
	6,206,108	03-2001	MacDonald <i>et al.</i>	175	24	
	6,230,822	05-2001	Sullivan <i>et al.</i>	175	40	

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